TMH:jlb 01/25/02 6395-62068

EXPRESS MAIL LABEL NO. EV053213529US
DATE OF DEPOSIT: January 25, 2002

Marked-up Version of Amended Sequence Listing
Pursuant to 37 C.F.R. §§ 1.121(b)-(c)

In the description of SEQ ID NO: 7, on page 6 of the replacement sequence listing:

<222> (20)..(21)
<223> Amino acid at position ~~19~~ 20 may also be arginine

SEQUENCE LISTING

<110> Tsang, Victor C. W.
Greene, Ryan M.
Wilkins, Patricia P.
Hancock, Kathy

<120> Methods and Compositions for Detecting Taenia Solium

<130> 03063-0551WP

<140>
<141>

<160> 7

<170> PatentIn Ver. 2.0

<210> 1
<211> 2153
<212> DNA
<213> Taenia solium

<220>
<221> CDS
<222> (145)..(531)

<400> 1
ctgcagtgaa gttgacaagt agttgaccat ttacggaaca tcaatggagg acactttggt 60

agggaaagca tacgataaac ataaaccaat gctggttata taagagacga tctcggctac 120

acttgtaact gaacaacctg taga atg cgt gcc tac att gtg ctt ctc gct 171
Met Arg Ala Tyr Ile Val Leu Leu Ala
1 5

ctc act gtt ttc gta gtg acg gtg tcg gcc gag tgg gtg ccc att tcg 219
Leu Thr Val Phe Val Val Thr Val Ser Ala Glu Trp Val Pro Ile Ser
10 15 20 25

agt gtc cac ata gcc tca tgc aaa agc cac tac atg ttc caa tta aaa 267
Ser Val His Ile Ala Ser Cys Lys Ser His Tyr Met Phe Gln Leu Lys
30 35 40

cgc ttt ttt gcc ttt agg aaa aac aaa ccg aaa gat gtt gca aat agt 315
Arg Phe Phe Ala Phe Arg Lys Asn Lys Pro Lys Asp Val Ala Asn Ser
45 50 55

acg aaa aaa ggg ata gaa tat gtc cac gaa ttc ttc cac gaa gac ccg 363
Thr Lys Lys Gly Ile Glu Tyr Val His Glu Phe Phe His Glu Asp Pro
60 65 70

att ggt aaa caa att gct caa ctc gca aag gaa tgg aag gaa gca atg 411
Ile Gly Lys Gln Ile Ala Gln Leu Ala Lys Glu Trp Lys Glu Ala Met
75 80 85

ttg gaa ggt agg ttt tgg tgt ttt ctg tca gaa gaa aat tat cta ttc 459
Leu Glu Gly Arg Phe Trp Cys Phe Leu Ser Glu Glu Asn Tyr Leu Phe

```
90                  95                  100                 105

att cat cta gac aaa ggc aaa ata cgg acg tca ctg gtt gag cac tgc   507
Ile His Leu Asp Lys Gly Lys Ile Arg Thr Ser Leu Val Glu His Cys
                110                 115                 120

aaa ggt cct aag aaa aaa act gct taacttgtca actttcatgc gttcttctct  561
Lys Gly Pro Lys Lys Lys Thr Ala
            125

tcactaataa atgctcatta ataagaaagc tgccttttgc aagatcaacg agggccatag 621

actgtgaggg ttatagccta aggttatggg gtgaaatgag ataggaattg agcatttgag 681

aagttactaa tttaaattga aagccgcatt tcttctgcaa ttgacgtgtg atggttagcg 741

aaaccaagtg aagcacgacc tcttgagtcg tttcaacagc cgccagtggt ttcaccagtg 801

gcttcaccag tgggtagact ggtttgtcac acatgcgagg tacggtcaga gggctaacag 861

gtgtggtgga ggggccaaca cgtgtaagac aagcagttcc ccttctctgt cgtgaggcac 921

actcagcacc cacctcgttt acttctccct tgacgactgt aatgcatttg gggtcaccat 981

gcccccgcca agttgaaggc actgatgaca tttgtaccat atcaccgata agtattaact 1041

cttccacttc ccagattttg aggtcaggcg atcctactga ctcggtgtag ccccatggtg 1101

gtccatgctc tgcaccattc gctgttcagt ggagcatcca cctagacggc caaccaatct 1161

cgcctccctt ctcctgtgct caagatgtgc gtcggtgaga tttggagggt ctgatcacca 1221

tactaaccac gtaggtttca tcatctctaa gaagcaccac ttcttgaggt cgcattgtgt 1281

accaccagcc ggtgtaatca agagtgactt tcgcgtcacc cctaagaagg ctatagatct 1341

gcaagtcagc gcaatagctt cagccatgct gactaaaatg tgtaagggac cagtagctct 1401

agcccaacac aagtggagct aataatgggc ttccccagat acatgaatcc caaatcggtg 1461

agcatgggcc atgaatatgg ccttctgagt cttccttgaa tgcaaacgaa ggcatagcac 1521

gagggtagga tgagtgtaca gaaaacagcg aggcaacgaa tctactggca tggccctgat 1581

gccacccccgc ccagctaggg tagtttggcc acctcagtcc ttaatcgaat gcggcagtca 1641

gaacaaacaa agtattacat agccacactc ttcttttgag cgtcgtcctc gacgctcctt 1701

tcgacacacc tcccgcatca gccaccacaa agtaatcagt actggggaga cacccacgag 1761

ctaaccgtgc cagtcatgga aaatttgacg gcaactgagg agatgcctga ccccctttgg 1821

cagttcgaat gctgcccgtg gtcaaactcc tgcatcagcc atcacctacg attcaaacat 1881

cctagtcgcc aaattttcgt gaaccctcta aaattttcgt gcactctcaa gacacttcca 1941

actgacttag agctttttca tttggtgaga acacgtaaaa gcttcaagta aacaacaggc 2001

aacgatttca ctttgatgct ctcaccatca attctcttgt atgtgccacc accttaaacc 2061
```

ctccctgacc acttccactc tctctctctc cctaaataac aacacttgga agcatgaatg 2121

gtgtctgtca aagttacacc cctagactgc ag 2153

<210> 2
<211> 129
<212> PRT
<213> Taenia solium

<400> 2

```
Met Arg Ala Tyr Ile Val Leu Leu Ala Leu Thr Val Phe Val Val Thr
  1               5                  10                  15

Val Ser Ala Glu Trp Val Pro Ile Ser Ser Val His Ile Ala Ser Cys
            20                  25                  30

Lys Ser His Tyr Met Phe Gln Leu Lys Arg Phe Phe Ala Phe Arg Lys
        35                  40                  45

Asn Lys Pro Lys Asp Val Ala Asn Ser Thr Lys Lys Gly Ile Glu Tyr
    50                  55                  60

Val His Glu Phe Phe His Glu Asp Pro Ile Gly Lys Gln Ile Ala Gln
65                  70                  75                  80

Leu Ala Lys Glu Trp Lys Glu Ala Met Leu Glu Gly Arg Phe Trp Cys
                85                  90                  95

Phe Leu Ser Glu Glu Asn Tyr Leu Phe Ile His Leu Asp Lys Gly Lys
            100                 105                 110

Ile Arg Thr Ser Leu Val Glu His Cys Lys Gly Pro Lys Lys Lys Thr
        115                 120                 125

Ala
```

<210> 3
<211> 298
<212> DNA
<213> Taenia solium

<220>
<221> CDS
<222> (3)..(224)

<400> 3

```
ta ttc gta gtg gcg gtt tcg gcc gag aaa aac aaa ccg aag tgt gat     47
   Phe Val Val Ala Val Ser Ala Glu Lys Asn Lys Pro Lys Cys Asp
     1               5                  10                  15

gca aat agt act aag aaa gag ata gaa tat atc cac aat tgg ttt ttc    95
Ala Asn Ser Thr Lys Lys Glu Ile Glu Tyr Ile His Asn Trp Phe Phe
                20                  25                  30

cat gat gac ccg att gga aaa caa att gct caa ctc gca aag gac tgg    143
```

```
His Asp Asp Pro Ile Gly Lys Gln Ile Ala Gln Leu Ala Lys Asp Trp
            35                  40                  45

aat gaa aca gtg cag gaa gcc aaa ggc aaa ttt tgg gcg tca ctg gct   191
Asn Glu Thr Val Gln Glu Ala Lys Gly Lys Phe Trp Ala Ser Leu Ala
        50                  55                  60

gag tac tgc aga ggt ctg aag aac aaa act gct taacttgtca actttcatgc 244
Glu Tyr Cys Arg Gly Leu Lys Asn Lys Thr Ala
    65                  70

gttcttctct tcaccaataa atgctgatta acaagaaaaa aaaaaaaaaa aaaa       298


<210> 4
<211> 74
<212> PRT
<213> Taenia solium

<400> 4
Phe Val Val Ala Val Ser Ala Glu Lys Asn Lys Pro Lys Cys Asp Ala
 1               5                  10                  15

Asn Ser Thr Lys Lys Glu Ile Glu Tyr Ile His Asn Trp Phe Phe His
            20                  25                  30

Asp Asp Pro Ile Gly Lys Gln Ile Ala Gln Leu Ala Lys Asp Trp Asn
        35                  40                  45

Glu Thr Val Gln Glu Ala Lys Gly Lys Phe Trp Ala Ser Leu Ala Glu
    50                  55                  60

Tyr Cys Arg Gly Leu Lys Asn Lys Thr Ala
65                  70


<210> 5
<211> 294
<212> DNA
<213> Taenia solium

<220>
<221> CDS
<222> (3)..(224)

<400> 5
tt ttc gta gtg gcg gtg tcg gcc gag gaa act aaa cca gag gac gtg    47
   Phe Val Val Ala Val Ser Ala Glu Glu Thr Lys Pro Glu Asp Val
     1               5                  10                  15

gta aag aat att aag aaa ggg atg gaa gtt gtc tac aaa ttt ttc tac   95
Val Lys Asn Ile Lys Lys Gly Met Glu Val Val Tyr Lys Phe Phe Tyr
                20                  25                  30

gaa gac ccg ttg gga aag aaa ata gct caa ctc gca aag gac tgg aag   143
Glu Asp Pro Leu Gly Lys Lys Ile Ala Gln Leu Ala Lys Asp Trp Lys
            35                  40                  45

gaa gca atg ttg gaa gcc aga agc aaa gtg cgg gcg tca ctg gct gag   191
```

```
Glu Ala Met Leu Glu Ala Arg Ser Lys Val Arg Ala Ser Leu Ala Glu
          50                  55                  60

tac atc aga ggt ctc aag aac gaa gct gct taa cttgtcaact ttcatgcgtt 244
Tyr Ile Arg Gly Leu Lys Asn Glu Ala Ala
     65                  70

cttctcttca ctaataaatg ctcattaata agaaaaaaaa aaaaaaaaaa             294


<210> 6
<211> 73
<212> PRT
<213> Taenia solium

<400> 6
Phe Val Val Ala Val Ser Ala Glu Glu Thr Lys Pro Glu Asp Val Val
  1               5                  10                  15

Lys Asn Ile Lys Lys Gly Met Glu Val Val Tyr Lys Phe Phe Tyr Glu
             20                  25                  30

Asp Pro Leu Gly Lys Lys Ile Ala Gln Leu Ala Lys Asp Trp Lys Glu
         35                  40                  45

Ala Met Leu Glu Ala Arg Ser Lys Val Arg Ala Ser Leu Ala Glu Tyr
     50                  55                  60

Ile Arg Gly Leu Lys Asn Glu Ala Ala
 65                  70


<210> 7
<211> 6
<212> PRT
<213> Taenia solium

<400> 7
Ile Ala Gln Leu Ala Lys
  1               5
```

35 40 45

Ala Met Leu Glu Ala Arg Ser Lys Val Arg Ala Ser Leu Ala Glu Tyr
50 55 60

Ile Arg Gly Leu Lys Asn Glu Ala Ala
65 70

<210> 7
<211> 6
<212> PRT
<213> Taenia solium

<400> 7

Ile Ala Gln Leu Ala Lys
1 5

<210> 8
<211> 24
<212> PRT
<213> Taenia solium

<220>
<221> VARIANT
<222> (7)..(8)
<223> Amino acid at position 7 may also be valine

<220>
<221> SITE
<222> (21)..(22)
<223> Asparagine at position 21 is an amino acid insertion

<220>
<221> VARIANT
<222> (14)..(15)
<223> Amino acid at position 14 may also be glycine

<220>
<221> VARIANT
<222> (18)..(19)
<223> Amino acid at position 18 may also be valine

<220>
<221> VARIANT
<222> (19)..(20)
<223> Amino acid at position 19 may also be histidine

<220>
<221> VARIANT
<222> (20)..(21)
<223> Amino acid at position 19 may also be arginine

<400> 8

Lys Asn Lys Pro Lys Asp Asp Ala Ala Ser Thr Lys Lys Glu Ile Glu
1 5 10 15

Tyr Ile Trp His Asn Phe Phe Phe
20

<210> 9
<211> 13
<212> PRT
<213> Taenia solium

<220>
<221> VARIANT
<222> (5)..(6)
<223> Amino acid at position 5 may also be isoleucine

<220>
<221> VARIANT
<222> (12)..(13)
<223> Amino acid at position 12 may also be aspartic acid

<220>
<221> VARIANT
<222> (7)..(8)
<223> Amino acid at position 7 may also be aspargine

<220>
<221> SITE
<222> (8)..(9)
<223> Tryptophan at position 8 is an amino acid insertion

<400> 9

Gly Ile Glu Tyr Val His Glu Trp Phe Phe His Glu Asp
1 5 10